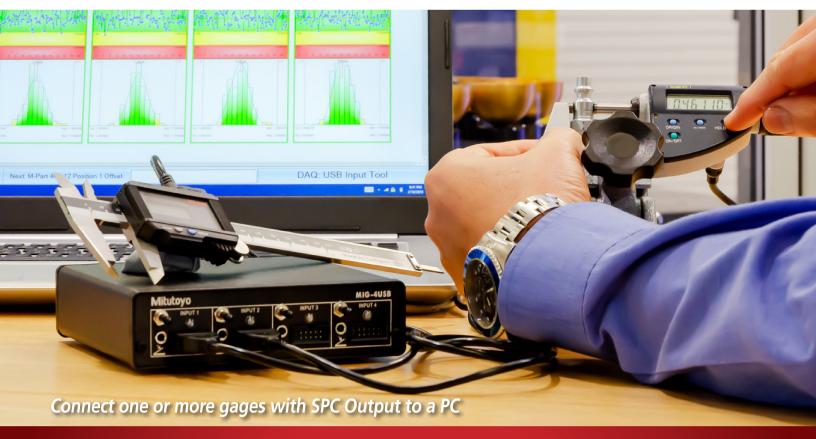


# **Easy Data Management**

**Interfaces, Cables and Accessories** 

**MeasurLink® ENABLED**Data Management Software by Mitutoyo





Small Tool Instruments and Data Management



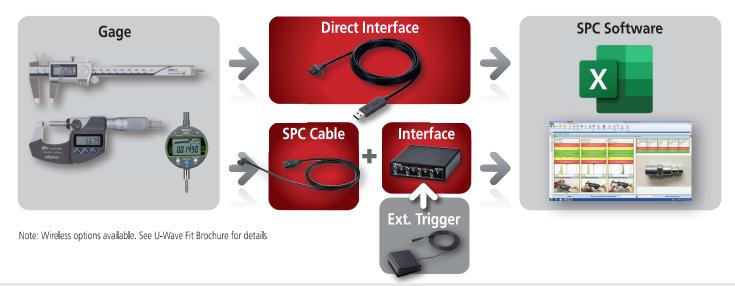


# **Plug and Play Interfaces**

Collect data quickly and easily with any of Mitutoyo's Data Management products. Whether your need is to manage and retain incoming data, gather data from multiple tools to create a customer report, perform SPC, or simply send data into Excel, Mitutoyo has the solution.

#### Benefits:

- No drivers, downloads, or installs required
- Send data into any program by converting your measuring tools into a virtual keyboard (HID)
- Request data from the PC
- Request data on a timed interval
- Supports Virtual COM Port (VCP)
- Converter cables easily transfer data from RS-232 devices to a PC or interface without special software and set-up



## **USB Multiplexers**

The USB Multiplexer is an interface that connects multiple gages with SPC Output to a PC. The benefits of a Digimatic Multiplexer include:



- The ability to transfer data from the gage into any software such as Excel or MeasurLink<sup>®</sup>
- Simplifying multi-gage inspection stations to a single USB connection reduces the number of connections required to the PC
- Supports keyboard emulation (HID), Virtual COM Port (VCP) and RS232 connections
- MAX, MIN and TIR collection modes for a single gage or across all connected gages
- Data input from Digimatic, d2, and RS-232 devices
- Timed and continuous data streaming
- Map ports to specified spreadsheet columns or rows for organized data collection
- Date and timestamp for spreadsheets









SPC Cables are used to connect gages to the Multiplexer. A USB connection to the PC allows data to be transferred by keyboard emulation (HID) or Virtual COM Port (VCP).

Multiplexers can be connected together to form a system that supports up to 99 gages. Data from single or multiple ports can be sent by the multiplexer, PC, or an external trigger.

Interface

### **USB Input Tool Direct-ITN**

This tool is a slim, single-piece cable with smooth routing for improved workability. Simply plug and play! No drivers or software required to input data to the PC.

| Part No.   | Description |  |  |  |  |  |
|--|-------------|--|--|--|--|--|
| 06AFM380A  | USB-ITN-A** |  |  |  |  |  |
| 06AFM380B  | USB-ITN-B   |  |  |  |  |  |
| 06AFM380C  | USB-ITN-C   |  |  |  |  |  |
| Note: For more information see official brochure |             |  |  |  |  |  |

| Part No.  | Description |
|-----------|-------------|
| 06AFM380D | USB-ITN-D   |
| 06AFM380E | USB-ITN-E   |
| 06AFM380F | USB-ITN-F   |
| 06AFM380G | USB-ITN-G   |



**Data Hardware Options** 

#### **Input Tools**

The Input Tool for RS-232 and the Input Tool for USB allows you to connect any Mitutoyo gage with SPC output directly to your PC. These input tools feature a data button separate from the gage and support an optional external trigger.

| Part No.   | Description                  |
|------------|------------------------------|
| 264-016-10 | USB INPUT TOOL**             |
| 264-007    | INPUT TOOL FOR RS232C OUTPUT |

Note: For more information see official brochure



#### **Data LOGGER DP-1VA**

Store up to 1000 measurements and batch transfer to a spread sheet or immediately print measurements and statistical results. Supports gage input at timed intervals and optional external trigger.

| Part No. | Description                    |
|----------|--------------------------------|
| 264-505A | DP-1VA, 120V AC W/ D2 OUTPUT** |

Note: For more information see official brochure



#### **USB Multiplexers**

Mitutoyo USB Multiplexers are available in 1, 2, 4 or 8 port models. The 1, 2 and 4 port models have integrated trigger switches.

| Part No. | Description                              |
|----------|--|
| 64AAB637 | MIG-1USB, V6.0 W/D2 COMPAT, SINGLE INPUT |
| 64AAB638 | MIG-2USB, V6.0 W/D2 COMPAT, DUAL INPUT** |
| 64AAB639 | MIG-4USB, V6.0 W/D2 COMPAT, 4 INPUT      |
| 64AAB640 | MIG-8USB, V6.0 W/D2 COMPAT, 8 INPUT      |

SPC Cables

## 10-pin connector

#### **SPC Cables**

Mitutoyo SPC Cables all have a common 10-pin connector on one end. This end connects to the USB Input Tool, multiplexer or DP-1VA Data LOGGER. The other end connects to the desired gage. Be sure to choose the connector that matches the Digimatic SPC Port on your tool. Some SPC cables have an integrated Data Send Button that can be used if the tool is not equipped. SPC cables come in 1m and 2m lengths.

| Part No. |          | Description      |
|----------|----------|------------------|
| 1m       | 2m       |                  |
| 05CZA624 | 05CZA625 | SPC CABLE TYPE A |
| 05CZA662 | 05CZA663 | SPC CABLE TYPE B |
| 959149   | 959150   | SPC CABLE TYPE C |
| 936937   | 965014   | SPC CABLE TYPE D |
| 937387   | 965013   | SPC CABLE TYPE E |
| 905338   | 905409   | SPC CABLE TYPE F |
| 21EAA194 | 21EAA190 | SPC CABLE TYPE G |

Note: Refer to catalog for correct cable selection

## **External Triggers**

Manually trigger data using the Push button switch or for hand-free data collection use the Foot Switch.

| Part No. | Description            |
|----------|------------------------|
| 937179T  | FOOT SWITCH**          |
| 64AAB644 | PUSH BUTTON SWITCH     |
| 12AAJ088 | HEAVY-DUTY FOOT SWITCH |



### **Extension Cables**

Allows extension of the SPC Cable by 6 or 10 feet.

| Part No. | Description                     |
|----------|---------------------------------|
| 64AAB645 | DIGIMATIC EXTENSION CABLE, 6'** |
| 64AAB646 | DIGIMATIC EXTENSION CABLE, 10'  |



#### **Extension Adapters**

Extend the length of an SPC cable with the 10-pin(M/M) extension adapter.

| Part No. | Description                         |
|----------|-------------------------------------|
| 64AAB647 | DIGIMATIC EXTENSION ADAPTER, W/AC   |
| 02ADF640 | EXTENSION ADAPTER/DIGIMATIC CABLE** |



### **Serial Converter Cables**

with MIG-2, MIG-4, MIG-8

Convert the signal from a serial output gage to Digimatic or USB to be used with any interface\* or PC. \*Extension adapter w/AC needed for SPC converter cables if not used

| . a. c. reor | Description                                   |
|--------------|---|
| 64PMT114     | CONVERTER CABLE, RS-232C TO SPC, 9 PIN MALE   |
| 64AAB641     | CONVERTER CABLE, RS-232C TO SPC, 25 PIN MALE  |
| 64AAB642     | CONVERTER CABLE, RS-232C TO USB, 9 PIN MALE** |
| 64AAB643     | CONVERTER CABLE, RS-232C TO USB, 25 PIN MALE  |
|              |   |



**Serial Cables and Adapters** 

Use serial cables to connect RS-232 output devices and equipment to a PC or adapters to change the RS-232 connector.

| Part No. | Description                                      |
|----------|--|
| 64AAB532 | USB 2.0 RS-232 SERIAL ADAPTER W/LED INDICATORS** |
| 12AAA807 | RS-232C CONNECTING CABLE NULL                    |
| 12AAA882 | RS-232C CONNECTING CABLE STRAIGHT                |
| 64PTS268 | F/F NULL MODEM ADAPTER-DB-9 (F) TO DB-9 (F)      |

## **USB Multiplexers**

### Toggle switch

Available on MIG-2 & 4 USB Multiplexers. Used to trigger data or start and stop MAX, MIN, TIR data collection





Available on MIG-1, 2, 4, & 8. LED verifies data input and MAX, MIN & TIR data collection 10-pin port accepts data from any Mitutoyo Digimatic tool with an SPC cable





Available on MIG-1 USB Multiplexers. Used to trigger data or start and stop MAX, MIN, TIR data collection



**Trigger Port** 

Available on MIG-1, 2, 4, & 8. Used to trigger data or start and stop MAX, MIN, TIR data collection with an external trigger. Can be used to trigger all data ports

|          | MIG Input      |                     |                 | MIG Output         |         | Data Send     |        |       |                 |            | Power              |                       |                  |                     |
|----------|----------------|---------------------|-----------------|--------------------|---------|---------------|--------|-------|-----------------|------------|--------------------|-----------------------|------------------|---------------------|
| Model    | # of<br>Inputs | 10-pin<br>Digimatic | Serial<br>RS232 | Pass-<br>Thru Port | USB     | RS232         | Button | Timed | Max/Min/<br>TIR | Continuous | Polling from<br>PC | Column/Row<br>Mapping | Power<br>Supply  | Supplies<br>Power** |
| MIG-1USB | 1              | Υ                   |                 |                    | HID/VCP |               | Push   |       | Υ               | Υ          | Υ                  | Υ                     | from USB<br>port |                     |
| MIG-2USB | 2              | Υ                   | RS232<br>DB9M   | Υ                  | HID/VCP | RS232<br>DB9F | Toggle | Υ     | Υ               | Υ          | Υ                  | Υ                     | Power<br>Adapter | Υ                   |
| MIG-4USB | 4              | Υ                   | RS232<br>DB9M   | Υ                  | HID/VCP | RS232<br>DB9F | Toggle | Υ     | Υ               | Υ          | Υ                  | Υ                     | Power<br>Adapter | Υ                   |
| MIG-8USB | 8              | Υ                   | RS232<br>DB9M   | Υ                  | HID/VCP | RS232<br>DB9F |        | Υ     | Υ               | Υ          | Υ                  | Υ                     | Power<br>Adapter | Υ                   |

All MIG units include USB cable, RS-232C cable\*, AC adapter\*, and USB flash drive with additional drivers.

<sup>\*\*</sup>MIG interfaces can have a feature where power can be supplied to gages or converter cables that can accept it, such as: 64PMT114, LGS Linear Gages, etc.









MIG-8USB



MIG-2USB





## Find additional product literature and our product catalog

www.mitutoyo.com

**Note:** All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive. Specifications are subject to change without notice.

Mitutoyo products are subject to US Export Administration Regulations (EAR). Re-export or relocation of our products may require prior approval by an appropriate governing authority.

#### Trademarks and Registrations

Designations used by companies to distinguish their products are often claimed as trademarks. In all instances where Mitutoyo America Corporation is aware of a claim, the product names appear in initial capital or all capital letters. The appropriate companies should be contacted for more complete trademark and registration information.



## Mitutoyo America Corporation

www.mitutoyo.com One Number to Serve You Better 1-888-MITUTOYO (1-888-648-8869)

### M' Solution Centers:

Aurora, Illinois (Headquarters) Boston, Massachusetts Charlotte, North Carolina Cincinnati, Ohio Detroit, Michigan Los Angeles, California Seattle, Washington Houston, Texas

<sup>\*</sup> MIG-1USB does not include RS-232C cable or AC adapter. Power is supplied by USB.